PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Vladimir I. Merkulov et al.

Serial No.: 09/795,660

Filed: February 27, 2001

For: CARBON TIPS WITH EXPANDED

BASES

Group Art Unit: 2812

Examiner: Unknown

Atty. Dkt. No.: UBAT:027US/JJB

CERTIFICATE OF MAILING 37 C.F.R 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on the date

below:

July 18, 2001

John J. Bruckner

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as

defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first

Official Action reflecting an examination on the merits, and hence is believed to be timely filed

in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the

filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R.

§§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the

Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit

Account No.: 50-1212/10100920/JJB.

Applicants respectfully request that the listed documents be made of record in the present

case.

Respectfully submitted,

Attorney for Applicants

John J. Bruckner

Reg. No. 35,816

FULBRIGHT & JAWORSKI L.I... 600 Congress Avenue, Suite 2400

Austin, Texas 78701

(512) 474-5201

Date:

July 18, 2001

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Form PTO-1449 (modified)				Atty. Docket N	Atty. Docket No.			Serial No.		
				UBAT:027US/	UBAT:027US/JJB			5,660		
List of P	atents an	d Publications fo	or Applicant's	Applicant						
			Vladimir I. Me	erkulov	v et al.					
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			Foreign P	Patent Docun	nent	S				
Exam. Init.	Ref. Des.	Document Number	Date	Country	Clas		Sub Iass	Translation Yes/No		
(Other A	Art (Includ	ing Autho	or, Title, Date	Per	tinen	t Pag	ges, Etc.)		
Exam. Init.	Ref. Des.			Citatio	n					
	C1	Baker, "Catalyt	ic growth of car	bon filaments," Car	bon, 27	:315-32	3, 1989			
	C2			wth of individual an etters, 76:3555-3557			ically al	igned carbon		
	C3			freestanding multiw 75:1086-1088, 1999.	all carb	on nano	tube on	each nanonickel		
	C4	Ren <i>et al.</i> , "Syn 282:1105-1107,		arrays of well-aligne	d carbo	n nanoti	ibes on	glass," Science,		

25053124.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANTS

Atty. Docket No. **UBAT1310**

Applicants	
Vladimir I. Merkulov, et	t al.
Application Number	Filed
09/795,660	02/27/02
For	
Carbon Tips with Expa	nded Bases
Group Art Unit	Examiner
2812	Unknown
Confirmation No.	
6123	

Box Patent Application

Assistant Commissioner for Patents Washington, D.C. 20231

Certification Under 37 C.F.R. §1.8

I hereby certify that this document is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on October 18, 2002.

Janice Pampell

Applicants respectfully request, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the art listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. A copy of the art is enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§ 1.97(g) and (h), no representation is made that a search has been made or that this art is material to patentability of the present application. Applicants respectfully submit that the claims of Applicants' above-referenced patent application are patentably distinguishable from these references.

Applicants hereby state under 37 C.F.R. § 1.97 (e)(1) that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the present statement, as evidence by the date of the enclosed search report.

If any fees are inadvertently omitted or if any amounts have been overpaid, please appropriately charge or credit those fees to Deposit Account No. 50-0456 of Gray Cary Ware & Freidenrich, LLP.

Respectfully submitted,

Gray Cary Ware & Freidenrich LLP

Attorneys for Applicants

John J. Bruckner (Reg. No. 35,816

Dated: October 18, 2002

1221 S. MoPac Expressway, Suite 400 Austin, Texas 78746 Tel. (512) 457-7233

FORM PTO 1449 US Department of Commerce	ATTY DOCKET NO.:	APPLICATION NO.:
Patent and Trademark Office	UBAT1310	09/795,660
	APPLICANT(S):	
	Vladimir I. Mei	rkulov, et al.
INFORMATION DISCLOSURE	FILING DATE:	GROUP ART UNIT:
STATEMENT BY APPLICANT	02/27/01	2812

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	A1	5,804,910	09/08/98	Kevin Tjaden, et al.	313	310	01/18/96
	A2	6,417,606	07/09/02	Masayuki Nakammoto, et al.	313	336	10/08/99
	А3						
	A4						

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	B1						
	B2						
	В3			·			· ·
	B4						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

C1	PCT International Search Report Date Mailed September 17, 2002.
C2	Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass by Z.F. Ren, et al. SCIENCE Vo. 282, November 6, 1998
C3	Variations in Structure and Emission Characteristics of Nanostructured Carbon Films Prepared by HFCVD Method Due to the Addition of Ammonia in Source Gases, by Seungho Choi, et al. Dept. of Molecular Science and Technology, Ajou University, Suwon 442-749 Korea. 2001 IEEE
C4	

EXAMINER	DATE CONSIDERED	
	·	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Atty. Docket No. **UBAT1310**

Applicant

Vladimir Merkulov, et al.

Application Number

Filed

09/795660

February 27, 2001

For

CARBON TIPS WITH EXPANDED BASES

Group Art Unit

Examiner

2812

Unknown

Certificate of Mailing Under 37 C.F.R. 1.8

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

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Janie Pampell

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the art listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. A copy of the art is enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§ 1.97(g) and (h), no representation is made that a search has been made or that this art is material to the patentability of the present application.

If any fees are inadvertently omitted, or if any additional fees are required, or if any amounts have been overpaid, please appropriately charge or credit those fees to Deposit Account No. 50-0456 of Gray Cary Ware & Freidenrich, LLP.

Respectfully submitted,

Gray Cary Ware & Freidenrich LLP

Attorneys for Applicants

John J. Bruckner Reg. No. 35,816

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						Application Number 09/795660			
l FO	FORM PTO 1449 US Department of Commerce					Filing Date	February 27, 2001	Ē	
	Pate				Office	First Named Inventor	Vladimir Merkulov,	et al.	
						Group Art Unit	2812		
						Examiner Name	Unknown		
Sheet	heet 1 of 1					Attorney Docket Number	UBAT1310		
Examiner I	xaminer Initials Cite No. OTHER PRIOR ART			PRIOR ART	NON PATENT LITERATI	JRE DOCUMENTS	Date		
	C1 Guillorn, et al., "Operation of a					a gated field emitter using an in tters, Vol. 79, No. 21, pp. 3506-3		November 19, 2001	
		C2				from isolated individual vertically d Physics, Vol. 91, No. 7, pp. 46		April 1, 2002	
		С3				Patterns from Single-Walled Ca 36, pp. 1340-1342.	rbon Nanotubes," Japan	October 1, 1997	
	·	C4	directly	grov		biased field emitter using sing by thermal chemical vapor dep 9-540.		January 22, 2001	
	C5 Guillom, et al., "Fabrication of gate vertically aligned carbon nanofiber as Science, pp. 573-578.							Mar/Apr. 2001	
	C6 Rinzler, et al., "Unraveling Nanotubes: Field at wwww.jstor.org, pp. 1550-1553.						Field Emission from an Atomic Wire" available		
					owth of individual and multiple v _etters, Vol. 76, No. 24, pp. 3555		June 12, 2000		
		C8	Xuepin emitter	g, et a	al., "A method for oplied Physics Let	fabricating large-area, patterned ters, Vol. 74, No. 17, pp. 2549-2	l, carbon nanotube field 551.	April 26, 1999	
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<u></u>		C10			II, "Field emission 73, No. 7, pp. 918	from single-wall carbon nanotut 8-920	August 17, 1998		
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C12 Dean, et al., "The environmental stability of field emnanotubes" Applied Physics Letters, Vol. 75, No. 19 C13 Wang, et al., "Flat panel display prototype using gate Applied Physics Letters, Vol. 78, No. 9, pp. 1294-12							November 8, 1999		
					, "Flat panel displa sics Letters, Vol. 7	ay prototype using gated carbon 78, No. 9, pp. 1294-1296.	nanotube field emitters,"	February 26, 2001	
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	C15 Guillom, et al. "Microfabricated field emission devices using carbon nanofibers as cathode elements", Journal of Vaccuum Science Technology B19(6), pp. 2598-2601.						Nov/Dec. 2001		
Examiner Signature					·		Date Considered		